REMARKS

This Amendment responds to the Office Action mailed on August 23, 2005, and the references cited therewith.

Claim 1 is amended. Claims 1-3, 14, 15, 19 and 28-32 are now pending in this application.

The Examiner is thanked for the courtesy of an interview and for his comments regarding Okada.

Support for the amendment of claim 1 is found in the specification at Example 1, page 17, line 25- page 18, line 11.

§102 Rejection of the Claims

The PTO has rejected claims 1-3, 14-15, 19 and 28-32 under 35 U.S.C. § 102(b) as being anticipated by Yamamoto et al. (hereinafter Yamamoto). Applicant submits that his amendment of claim 1 overcomes this rejection.

Applicant believes there is a misunderstanding about the stages of solidification described by Yamamoto and also a misunderstanding about the solidification process according to Applicant's invention. Once these misunderstandings are clarified, Applicant believes the differences between Yamamoto and his invention will be apparent.

Yamamoto first combines a drug and water solution with a polymer and solvent solution to form a water in oil emulsion. The aqueous solution is the inner, discontinuous phase while the polymer solution is the continuous phase. According to this characterization, the aqueous solution consists of micelles suspended in the continuous polymer solution. In other words, the physical structure of the aqueous solution consists of microdroplets dispersed in the polymer solution.

The first misunderstanding occurs at this point. While the aqueous microdroplets are liquid, their interfaces with the polymer solution are solid. The surface contact between those aqueous microdroplets and the solution of polymer causes polymer to coagulate at the surface of the microdroplets and form solid shells around the microdroplets. To accomplish a discrete interphase boundary and produce the polymer solidification, the organic solvent used for the

polymer solution must have negligible water solubility. Yamamoto recognizes this requirement by stating that:

> "Said organic solvent may be any organic solvent which has a boiling point not higher than about 120°C and hardly miscible with water. Examples are halogenated alkanes (e.g. dichloromethane, chloroform, chloroethane, trichloroethane, carbon tetrachloride), ethyl acetate, cyclohexane, benzene and toluene.

Yamamoto at col. 5, lines 54-59.

While Yamamoto lists a number of solvents for this use, his examples demonstrate that only those solvents with negligible or no water solubility are applicable. Each of his five examples uses methylene chloride or chloroform as the organic solvent for the polymer. Yamamoto's use of a water insoluble solvent is also reflected by all but one of the solvents of his list given above. Chloroform, chloroethane, trichloroethane, carbon tetrachloride, cyclohexane, benzene and toluene all exhibit the same complete water insolubility as methylene chloride (dichloromethane). Only ethyl acetate is aberrant with a water solubility of about 8.3% according to the Handbook of Chemistry and Physics (copy enclosed). Yamamoto's other solvents have water solubilities of 1% (chloroform) 0.5% (chloroethane), insoluble (trichloroethane), insoluble (carbon tetrachloride), insoluble (cyclohexane), 0.08% (benzene) and 0.05% (toluene) according to the Handbook of Chemistry and Physics. It is notable in this respect that Yamamoto does not use ethyl acetate in any of his examples. The other examples of Yamamoto's solvents demonstrate Yamamoto's meaning of his general solvent description. "hardly miscible." Ethyl acetate is not 'hardly miscible according to this description or standard.

It follows that Yamamoto's first W/O emulsion does not allow any of the organic solvent/polymer solution to infuse into the water microdroplets. Instead, the sharp interface between the organic phase and the water phase causes formation of solid polymer shells around the water microdroplets. The lack of infusion between the water and the organic solvent means that the water microdroplets remain discrete and the bulk of the polymer in the organic solvent does not contact a polar, protic medium that would cause it to precipitate. In other words, the polymer of the organic solvent phase will not coagulate.

In contrast, the water solubilities of the organic solvent of claim 1 of the present invention range between 2% and 20%. This solubility permits some of the organic solvent/polymer solution to infuse into the water phase. This infusion means that no discrete boundaries exist between the water and organic solvent phases. It also means that the water phase does not solely exist as discrete microdroplets. Instead, there is a recombination such that some water is present in the organic solvent phase and some organic solvent/polymer is present in the water phase. The result is a tendency of the entire mixture to solidify. Because of the choice of the low water solubility of the organic solvent, however, the solidification does not happen immediately.

As indicated at page 4, lines 16-24 of the present specification, the formulation of the invention is useful for a moderate period of time ranging from 7 days down to a few hours. The usefulness is terminated when the formulation solidifies. Example 2 of the present application demonstrates what happens as water completely infuses with organic solvent. In this example, a high water solubility solvent, N-methyl pyrrolidone, is used and solidification occurs rapidly. This example also demonstrates how the formulation with a low water solubility solvent will eventually solidify.

The second misunderstanding is a result of failure to address the water to organic solvent ratios. Yamamoto teaches a very low water to organic solvent ratio. All of his examples demonstrate very low water to organic solvent ratios. These ratios are as follows: 0.075:1 (Example 1, 0.3 ml water to 4 ml solvent), 0.1:1 (Example 2, 0.5 ml water to 4.5 ml solvent), 0.04:1 (Example 3, 0.25 ml water to 6.3 ml solvent), 0.13:1 (Example 4, 1 ml water to 7.5 ml solvent) and 0.09:1 (Example 5, 0.5 ml water and 5.5 ml solvent). These low ratios ranging from 0.04:1 to 0.13:1 mean that an insignificant amount of water is present so that coagulation of the polymer in the organic phase will not occur as would happen if the organic phase were flooded with water.

In contrast, the present invention, as recited by amended claim 1, employs a higher ratio of water to organic solvent such that the polymer in the organic solvent will eventually precipitate. However, the ratio is controlled so that the system is not flooded with water to cause immediate precipitation. The result is that the formulation of the present invention eventually will produce polymer precipitation without additional water but also avoids immediate

precipitation. Nevertheless, the water present is sufficient to protect the biological agent from significant drug-polymer interaction while both are dissolved in liquids.

The third misunderstanding involves the product produced. Yamamoto combines his W/O emulsion with a third water phase. This phase causes the polymer/solvent phase to completely coagulate. However, Yamamoto does not obtain a single body solid. Instead, he obtains microcapsules of polymer shells containing water and drug. While the third water phase causes precipitation of the polymer because that third phase is the continuous phase, microcapsules filled with the aqueous solution of drug cannot be produced by Yamamoto's process unless those water microdroplets already had solid polymer shells surrounding them. If the first W/O emulsion were only a liquid/liquid emulsion with no solid shells, Yamamoto's last step to form the microcapsules in the W/O/W emulsion would merely dissolve the drug in the continuous water phase and make polymer particles with no drug. The first emulsion would consist of liquid water droplets emulsified in the solvent/polymer continuous phase. If this kind of emulsion were combined with a third water phase that becomes the continuous phase under the emulsification conditions required by Yamamoto, those water microdroplets will combine with that continuous water phase such that the drug will be outside of the polymer particles. The emulsification effected by Yamamoto's high speed stirring would cause the recombination of the water microdroplets with the continuous third water phase if those microdroplets were not already isolated by polymer shells.

The present invention differs significantly from Yamamoto in this respect also. Although there is significant mixing and emulsification of the water and organic solvent portions according to the present invention, no solid polymer shells result. Instead, the mixture is a liquid-liquid emulsion. When it is contacted with water or body fluid (but is not re-emulsified), this entire mixture converts to a single body solid. If solid polymer shells were present in this mixture as Yamamoto requires, no single body solid would result.

In summary, Yamamoto's disclosed composition significantly differs from the claimed composition. Yamamoto does not employ a solvent having the requisite water solubility. Yamamoto does not employ the ratio of water phase to organic phase recited by the present claims. Yamamoto does not have a liquid – liquid emulsion configuration for his first W/O

emulsion as the present invention presents. Instead, Yamamoto has solid polymer shells as microcapsules dispersed in his continuous organic phase.

For these reasons, Applicant submits that his claims are not anticipated by Yamamoto.

Applicant respectfully requests withdrawal of this rejection over Yamamoto.

§112 Rejection of the Claims

The PTO has rejected claim 28 under 35 U.S.C. § 112, second paragraph, as being indefinite. The term "non-polymeric material" is cited as being unclear.

Applicant responds that the term "non-polymeric material" is a defined and exemplified term. Applicant refers to page 10, line 22 through page 11, line 15. This passage describes non-polymeric material and provides many examples. Applicant submits that this explanation makes this term clear. Applicant also refers to §608.01(o) in support of the specification basis for definition of this term in his claims. Applicant respectfully requests withdrawal of this rejection.

The PTO has also rejected claims 1-15, 19 and 28-32 under 35 U.S.C. § 112, first paragraph, for enablement regarding polymer viscosity.

Applicant responds that viscosity is not a limitation of the invention. Apparently, the PTO has focused upon viscosity because Yamamoto indicates viscosity is important for his invention. Yamamoto desires to produce microcapsules of a certain size. To accomplish this production, Yamamoto must have a certain viscosity of his W/O and W/O/W emulsions. Otherwise, he will not be able to shear the phases to a degree to finely divide the discontinuous phase to the size desired.

Applicant, however, does not produce microparticles, microdroplets, microcapsules or any other particular size of micelles of a discontinuous phase of an emulsion. Applicant instead produces a single body solid formed from the entire bolus of continuous phase. Applicant explains at page 9, line 25 through page 10, line 2 that the viscosity of the delivery composition can vary from easily flowable (i.e., a low viscosity) to a very high viscosity. Since the viscosity of the delivery composition is governed by the viscosity of the polymer, the intrinsic or inherent viscosity of the polymer may equally vary. In other words, the viscosity of the polymer may vary from very low to very high. There is no parameter or requirement of the composition that generates a need for a specific range of viscosity as Yamamoto requires.

For this reason, Applicant respectfully requests withdrawal of this rejection.

Page 10 Dkt: 1195.157US1

CONCLUSION

Applicant respectfully submits that the claims are in condition for allowance, and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney at 612-373-6900 to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

Respectfully submitted,

RICHARD L. DUNN

By his Representatives,

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Signature

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Mail Stop Amendment, Commissioner of Patents, P.O. Box 1450, Alexandria (NA 22313-1450, In this 1237 day of 1200).

Mina M Youle

Date Dec 13, 2005

Name



HANDBOOK

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A READY-REFERENCE BOOK OF CHEMICAL AND PHYSICAL DATA FORTY-SECOND EDITION

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Cleveland, Ohio

UNITED STATES OF AMERICA

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43)	al vera	SALE-SACE	a grand																						
ļ	Mol. Wt.	166.13	166.13	166.13	120.15	246.30		197.23	212.24	242.23	242.23	242.23	242.23	242.23	242.23	213.29	292.32	(274.30)	78.11				148.24	148.24	
	Formula	NO ₂ C ₆ H ₄ CONH ₂	NO ₂ C ₅ H ₄ CONH ₂ .	NO2CeH.CONH2	CeHeC(:NH)NH2	C,H,C(:NH)- NHC,0H,		C.H.CONHC.H.	P-H ₂ NC ₆ H ₆	NO.C.H.	C.H.CONHC.H.	NOC.H.	C.H.CONHC.H.	NOSCIE CONHCE	C.H.CONHC.H.	C.H.CSNHC.H.	CaHa(CaHaOH)?	C.H.(OHC.H.)- C.C.H.:0	C ₆ H ₆	_rabromo-	zachloro-*.	N N dimethal	CaHs (CH2) CH3	C.H.C(CH3)2C2H6	4
	Synonyma	methyl See Toluamide.			benzenecarbonamidine*;	benzenylnaphthylamidine	See Benzamide, axime. See p-Eucaine.	See Anagen. N-phenylbenzamide;	IV-Denkoy immund				4		***************************************		p,p'-dibydroxytriphenyl-	carono	See Benzoyl azide. See Quinoline. See Isoguinoline. benzol; benzole; pbene*	Son Contributions 12345 6.he	See Cyclohexar See Acetophene See Benzene, et		mino See Phenylenediamin e., N. 1 varmenye See Ether, amyl phenyl. Lephenylpentane	See Benzene, (&methylbutyl)- 2-methyl-2-phenylbutane	roxy See Resercinal, 4-amyl See Diphenylamine*. See 1,2,3-Benzotriazole.
	Мате	Benzamide, o, m or p- m	m-nitro-		Benzamidine	, N-1-naphthyl	ne.	Benzanalgen. Benzanilide	p-amino	, o-nitro	, o'-nitro	, m-nitro	, m'-nitro	, p-nitro	, p'-nitro	thio-	Benzaurin		Benzazide. 1-Benzazine. 2-Benzazine. Benzene*	- 1	hexachloride. acetyl acetyle.	nethy	, aminodimethyla , amoxy, amyl	, sec-n-amyl	—, 1-amyl-2,4-dihyd —, anilino —, azimino
	No.	0601	1092	1093	1094	1096	1097	6601 1000	1100M	1101	1102	1103	1104	1105	1106	1107	1108	-	1110		1115	8111	8113 1131 1231	1123	1125 1126 1127

*Name approved by the International Union of Chemistry.

ORGANIC COMPOUNDS (Continued)

	Crystalline				-		
2	form, color	Density	Melting	_		Solubility in grams	ns per 100 ml of
j	refraction		point, °C		Water	Alcohol	Ether, etc.
1090							
1001	need. f. dil. al.	1.462 4	176.6	317	8. H	89	s. eth.
1092	yel. monocl.	:	142.7	315	, d	66	s. eth.
1093	need. f. w.		201.4		V. 8l. 8.	œ.	s eth
200	col. cr	:	8	7	5 5 	, b	RI s oth
1096	pl. f. al	:	141		i		s. eth.
1001						i	
8601							
0 1	col. leaf. f. al.	1.321	191	117-910	v. sl. s.	3.1630	sl. s. eth.
1100M	col. cr	:	135-6	:	:	si.	1
1011	wh. need. f. al.	:	155	-	V. 8l. 8.	V. 8.	sl. s. eth.
1102	yel. need. f. al.	:	8-4-8		sl. s. b.	si.	v. s. eth.
1103	leaf. f. w. or al.	:	153-4	subl.	V. 8L. 8.	1 00	s. eth., bz.
1104	leaf. f. amyl al.	:	157	:	ೆ.ಸ	8l. 8.	v. s. cbl.
1105	leaf. f. eth	:	210-11	:	V. Sl. 8.	só.	s. eth.
1106	yel. need	:	199	:	1	sl. s. h.	
1107	yel. pr. f. al	:	100-2	-bi		6	v. s. eth.
7109	brick red powd.	:	100	:	v. sl. s.		s. eth.; sl. s. b. bz.
1110	col. rhomb. pr. or inflam.	0.8790120	5.51;	80.09	0.0822	8	∞ eth., sc. s., soet., tol.; s.
11116	1.50112.0						
	col. liq., 1.475118	0.86023	-78.25	202.1		86	∞ eth.
1124	lig., 1.4915424	0.873615	:	189-91	:	8	. eth.
			_	-			

Formula

Synonyma

Name

165.19

o-(acetylmethylamino)-phenol

Acetanilide, o-hydroxy-N-methyl-—, p-hydroxy-Nmethylp-'odo-

See p-Acetaniside. exalgin

..., p-methoxy.

22

See o-Acetotoluide.

CH₂CON(CH₂)C₂-H₄OH CH₂CON(CH₂)C₂-H₄OH CH₂CONHC₆H₄I... 180.16

CH,CON(CH,)C,- 1 H,NO,- CH,CONHC,- 1 NO,- CH,CONHC,- 1,1 NO,- CH,CONHC,- 1,1 NO,- CH,CONHC,- 1,1

-, m-nitro-

-, p-nitro-...

28

11

o-nitro-

92

o-methyl..

33

194.19

149.19

CH,CON(CH,)-C,H,

		_
1		֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜
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	7	7
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	form, color	Density	Melting	Boiling	Solubilit	y in gran	Solubility in grams per 100 ml of
ġ.	and index of refraction	g/m]	point, °C	point, &C	Water	Alcohol	Ether, etc.
69	пееф		150		8.18	4. B	s. eth.
8	Gf		240		v. 8l. s.	¥.8	s. eth
2	monocl	1.98916-20	183-4		д 8	5.0511	i. eth.; v.
ដដ	col. rhomb. pr. f. al. 1.560, 1.576, 1.647	0.977	101 -4 (97-99)	254.7 (253713)	i.(sl. s.)	eđ.	đ
45	leaf. f. w		152-3		• !	ьó	s. eth
76	yel. monocl.	1.41915	93 (90-1)	:	% ط	σó	v. g. eth.
1	colyel. leaf	. :	155 (150.5)		é.	si.	i. eth.; s. chl.
- 82	yel. rhomb. pr.	:	215	:	v. sl. s.	œi	s. eth., KOH
8288	M J Deed		22			• • •	
22,	pearly, wh. cr.		87-8 (84)	303-5	7. 8. b.	55.331	NaOH 8. eth.; v.
8	f. w. wh. powd., pr. or pl. f. w.		137-38		0.215, 8.3100	12.71	ac. a. sl. s. eth.; chl., acet.
88	col. liq.,	1.04929	16.6	118.1	8	. 8	∞eth.; i. CS₃
88	1.37182 under o-Cresol, col. liq.,	02	I, etc.	103	8l. 8.	8	e eth.
8	1.40448 col. liq.,	0.87929	:	148737	0.1870	8	o eth:
8	1.4012 col. liq.	1.057	-51.5	(145–7) 213.576	v. sl. s.	: 8	∞eth:
16	1.5232 col. inflam. liq., 1.3951		-76.8	126.5 (124-6)	0.525	8 .	• eth:
85	col. liq.,	0.8648	:	112-3			s. eth.
g	1.3866- need., 1.4358#.9	0.858	18.5 (16-9)	200.515	:	v. sl. s.	v. s. eth:
3.	col. inflam. liq., 1.3721618.9	0.901 16	-83.6	77.15	8.620 7.435	8	ceth., chl.
:8		0.90657		:			
28	ool. liq.,	0.87416	:	191.5		ĸi	a. eth.
86	col. liq	0.8902	:	169.2		Ą. B.	v. s. eth.
8	col. liq., 1.4017017.9	0.869926	-78.5	142.5 (138–40)	0.1625	8	∞eth.; s. amy• ál.
8	col. liq.,	0.8712	-98.9	116.5	0.6316	8	s eth.

165.19 165.19

CH,CONHC,H,OCH,COCH,COCH,COCH,COCH,

N-acetyl-o-anisidine; o-acetanisidide

o-Acetaniside.....

p-Acetaniside.

CH,CSNHC,H,...

See Acetamide, N. N-diphenyl See o-Tolvanilide. See Azobenzene, p-acetamido.

—, N-phenyl.,
—, a-phenyl.,
—, p-phenylazo.,
—, thio-

8228

CH₂COO(CH₂).-CH₂COO(CH₃).-CH₂COOCH₂C₆H₄. 150.17

amyl acetate; 1-pentanol acetate; amyl acetic enter
benayl acetate; benayl
ethanoate*
butyl acetate; butyl ethanoate*

---, butyl ester.....

-, benayl ester...

. amyl ester

CH,COO(CH,)

For exters other than those list ed below see also "a cetate" allyl acetate. 2-propenyl CH₃COOCH₂CH: 100.11

—, esters. —, allyl ester....

8 8 88

Acetic acid....

СН,СООН.....

P-methoxyacetaniide;
P-acetamidanisole;
N-acety-p-anisidne;
methacetin; P-acetanisidde

2-butanol acetate; c-methyl- | CH.COOCH(CH.)- | 116.16 propyl tabinaate- | C.H.COOCH(CH.)- | 284.47 noate*; n-haradecyletha- | CH.COO(CH.)n- | 284.47

-, cetyl ester.....

8 2

----- ethyl ester:....

-, see-butyiester....

СЊС00Сън....

ethyl ethanoate*; acetic ester.

CE,COOC, Hu... 158.24

-, ethylene ester. -, furfuryl ester. -, heptyl ester.

288

—, hexyl ester......isoamyl ester.....

144.21 130.18 116.16

CH,COO(CH;)r-CH,COO(CH;)r-CH(CH;)r

CH,COOCH, CH(CH,);

isoamyl acetate; 3-methyl-1-bubanol acetate; 7-methylbutyl ethanoate; 8-methylisobutyl acetate; 8-methylpropyl ethanoate*

---, isobutyl ester.....

For explanations and abbreviations see beginning of table.

Name approved by the International Union of Chemistry.

768

				******		veraex.	are de la companya de							-
Mol. Wt.	168.14	84.16	118.61	112.21	112.21	657.60	290.85	290.85	290.85 290.85	126.24	160.25	128.17	172.18	172.18
Formula	C.H.(COOH)1	C.H.Br.	CHICI	C ₆ H ₁₀ (CH ₆) ₁ ,	C4H10(CH1)1:	CeHeBrs	CeHeBre	CeHeCle	CeHecle.	CaHr-CaHii	C4H4C6H11	C.H.1.COOH	CeH10(COOH)1	C ₆ H ₁₀ (COOH) ₂
Synonyms	2,3-dihydroterephthalic acid	hearbytrobensene; hexa- methylene See Cycloherydamine*. evelohery! bromide	cyclobenyl chloride	henahydro-m-rylene	hexahydro-p-xylene	bensene trans-hexabromide	bensene \$-bensbromide bensene frans-hexachloride	benzene cis-hexachloride	benzene 7-hexachloride	bexahydrocumene; normen- thane thyl See p-Menthane. bexahydrotoluene; cyclo-	herylmethane eycloherylbensene; 1.2.3,4,- 5,6-herahydrobiphenyl herahydromentylene.	hezahydrobensoic acid hezahydrosalicylic acid	oxy-*. See Quinic acid	hezahydroterephthalic acid
Name	1,3-Cyclohexadiene-1, 4-dicarboxylic acid*	yclohexane*yclohexane	, chloro-*	, 1,3-dimethyl	, 1,4-dimethyl	1,2,3,4,5,6-hera-	(\$ or cis)	chloro- (c or trans)	(†)	, isopropyl, 4-isopropyl-1-me	——, phenyl	Cycloheranecarbo- xylic acid*, 2-bydroxy	1,2-Cycloheranedi- carboxylic acid*	1,4-Cycloheranedi- carboxylic acid*
No.	3888	2989	1500	2992	2993	2894	2996	2997	2998	3000 3001 3002	3003	3006	3007	3006

*Name approved by the International Union of Chemistry. $942\,$

ORGANIC COMPOUNDS (Continued)

	WCO OTHER						
	Crystalline	Donaite	Melting	Boiling	Solubility	in grams	Solubility in grams per 100 ml of
No.	and index of	(a)	point, °C	point, C	Water	Alcohol	Ether, etc.
2086	Bocks				 	:	
2987		0 7701	7.	81.4	i	8	∞ eth.
2888		7	;				٠.
2989 2990	col. liq., 1.4956416	$1.3290\frac{15}{15}$		163~5	:	8	o eth.
2991	col. hq., 1.46264	1.0161 %;	6.24	142.5	.2	8	eth.bs.
		1.000.E					•
2992	col. liq. (cia)	0.7735 20	3 8	121	:	8	eth.
	1.4269 (trans) 1.4254.	0.772		11975	:	:	:
2993	col. liq., 1.421.	(cis)	98-	120.5788	:	:	
		(trans) \$ 0.7638 0	213	119		. 18 . 8	al. s. eth.; s.
4 0.67	pr.						i. eth.: sl. s. bs.
2895	cub. cr. f. bs	:	253 d.	:	:		14 31.00
2996	col. monocl.	1.87%	157	288 d.	.2	ط ف	6.5 ¹⁸ bs.; v. s.
2897	col. cr	1.8919	297	subl.	.ء	81.8	0.13 CHCla, lra ba.; 0.289 ¹⁶
2998	need. f. al		112~3 129~32			# !	
3000	ii.	0.7902	-	154.7		8.	v. s. eth.
3001	col. liq., 1.4235		-126.4	100.3	<u>.</u>	<u> </u>	s. eth.
		0.769					, t
3003	oil	0.9440	~	237.5	4	÷	. 6. 6
3004	(cis) col. liq 1.43010%	0.7732		140.5 ⁷⁵³ 138.5- 139 ⁷⁵⁴			
0		1 048 16	31	233	0.2014	8.	v. s. eth.
3006	pr., 1.4561 ⁸³ cr. f. w		= =		4. R	». 8	v. s. etb.; sl. s. bs.
3008	(cis) triel. pr. f. w.	:	192; d. -H30	i i i	0.3	ಪ	8. acet.
	(trans)		221		-	-	
3000		-	168-9	<u> </u>	. 4.8. b.	4	s. eth., CHCl.
	f. w. (trans) pr. f. w.	:	. 300 subl.		. 1.34 b.	4. 8.	sl. s. eth.; s. scet.;i.CHCls
l	_		Total Position	ing of table.			

.	Name	Synonyms	Formula	Mol. Wt.
Z , , , , , , , , , , , , , , , , , , ,				
¥ , , , ,	Chavicol	p-allylphenol	CH; CHCHCLE.	134.17
<u> </u>	—, methyl ether. Chelerythrine, alcoholate	See Estragole.	CriHisNOs-CrHsO.	411.44
¥	Chelidonine, hydro-		CacHisNOs-HCl	389.83
× 1	d-Chelidonine		CmHuNO.Ho	371.38
	Chick antidermatitis f Chinalgen. Chinasamine.	actor. See Pantothenic acid. See Analgen. See D-Glucosamine. trichlomethanel et richlore.	OH0100	
	-, alcoholate	acetaldehyde 2,2,2-trichloro-i-ethoxy- ethanol*; chloral hydrate	CCLCH(OH)OC.	193.47
	—, diethyl acetal. —, hydrate	thyl acetal ane, 1,1,1-trichloro-2,2- chloro-1,1-ethane- trichloroethylidene	diethoxy-*. CCLCH(OH)3	165.42
_	Chloral-antipyrine. Chloranil	glycol See Hypnal. tetrachloroquinone; tetra- chloro-p-bensoquinone	C,CUO,	245.89
2671 CE	Chloranilic acid	2,5-dichloro-3,6-dihydroxy-	C4Cl2(OH)2O2	.208.99
2673 2673 2674 2674	Chlorbutanol. Chlorbutol. Chloretone	quinone See Chlordone. See Chlordone. 11.1.1-trichloro-2-methyl-2- propanol's trichloro-fer-bu- tyl alcohol; acetone-chloro- form; chlorbutol; chlorbu-	(CH ₄) ₂ C(0H)CCl ₂	177.47
555 22 22 22 23	Chlorhydrin. Chlorine cyanide. Chloro	tanol See 12-Propanediol, 3-chloro-*. See Cyanogen chloride. See the parent compounds (e. g., for chloroacetic a	5., for chloroscetic a	cid Bee
2877 C.	Chloroacetal	2-chloro-1,1-diethoxy- ethane*; chloroacetalde-	CHICH(OCIHE)	152.62
2678 2679 CG	Chloroform.	hyde diethyl acetal See Propana, 2,2-dichloro-*. trichloromethane*	CEC13	119.39
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	— methyl. — nitro. — phenyl. Chlorogenine. c-Chlorophyl a. Chlorophyl b.	See Ethan, 1.1.1-trichlaro-* See Okloropierin. See Automin. See 1.2-Proparatiol, 3-chlaro-* trichloronitromethano*; nitrochloroform	CGLNO:	902.49

•Name approved by the International Union of Chemistry.

ORGANIC COMPOUNDS (Continued)

	Crystalline form, color	Density	Melting	Boiling	Solubilit	y in gram	Solubility in grams per 100 ml of
No.	and index of refraction	lm/28	point, °C	point, C	Water	Alcohol	Ether, etc.
2658	liq., 1.5441 ¹⁹	1.0331	<25	237	ed.	. 8	eth., chl.
2659 2660	rhbdr. leaf.; sol. bl.		207			8J. 8.	v. s. eth.; s. chl., amyl al.,
2661	fluores. wb. fine cr	:		:	0.314	sl. s.	bs.
2662	monocl. tab	:	135-6			ν. 8.	V. S. eth.; S.
2663 2664 2664 2664 2665		1.512	72,	œ	eż	8	
2666	1.45572 col. need	1.143 40	44-7 (55)	115	. 8.	6	s. eth.
2667	col. monocl. tab., 1.538, 1.600, 1.602	1.9081	51.7 (61-3)	96.3764 (98 d.)	47011	1774	66.77 etb., s.
2669 2670	yel. monocl. pr. f. bz.		290 (in sealed	subl.	1	વં ક	s. chl., bz.; sl.
2671	red leaf	:	283-4 283-4	:	v. sl. s.	:	# · · · · · · · · · · · · · · · · · · ·
2672 2673 2674	wh. cr. (+1H ₃ 0) f. w.		+1H ₂ O 80-1 (anh. 97)	167	.: o	, 8	v. s. eth.; 125 glyc.; s. chl., scet., bz., glec. sc. s.
2675 2676	Acetic acid, chlor	ં					
2677	pij	1.02616		156.8 (62-429)	sl. e.	8	~ eth.
2679	col. liq., 1.4464318	1.4984514	-63.5	61.26 (68–61.5)	1.04	oonst. boil. mixt. 7%	α · eth.; s. bx., acet., CS3
2680 2681 2683 2683						et. al.	
2685 2685	hex. lancet shaped pl.	:	150-3	ij	:	۷. B.	v. s. eth.; s. pet. eth.
2686	ol	:	183-5	:		. B.	v. s. eth.; s. me. sl.
2687	col. liq., 1.460752	1.651 ~ ; 1.69225 <u>~</u>	-84, frs.	112		8	eth.

\vdash				;
	Name	Synonyms	Formula	Mol.
3549K	Ethane, 1,1,2,2-tetra- chloro-*	sym-tetrachloroethane; acetylene tetrachloride	CHCI4CHCI4	167.86 203.8 5
3549P	chloro-2,2-di- fluoro-* 1,1,2,2-tetra-		CCleFCCleF	203.85
	chloro-1,2-di- fluoro-* 1,1,1,2-tetra-	unstetraphenylethane; tri-	(CeHe),CCH,CuH	334.44
	pnenyi-	o-bensyltritan	-HOHOG (GHO)	334.44
	phenyl-	vinyl tribromide	CH ₂ BrCHBr ₂	266.79
	1.1.1-trichloro-*	methylchloroform	CH ₂ CCl ₃	133.42
	, 1,1,1-trichloro-	chloral diethyl acetal; tri-	CCLCH(OC.H.)2	221.52
	2,2-diethory-*	chloroacetal vinyl trichloride	CH1CICHCl2	133.42
3555R			CCLaCF3	187.39
3556	2,2,2-trifluoro-* 1,1,2-trichloro-		CzClsFs	187.39
3557 3557M	1,2,2-trifluoro- 1,1,1-triethoxy-*. 1,1,1-trifluoro-*.	See Orthoacetic acid, triethyl es methylfluoroform methyliodoform.	CH4CF3	84.04 407.80
35.50	1.1.1-triphenyl-	a-methyltritan	(C.H.),CCH,	258.35
3560	, 1,1,2-triphenyl-		C.H. CHCH.	258.35
3561 3561M 3562 3563 3564	Ethaneazobenzene. Ethaneboronic acid. Ethanedial.* Ethanediamide*.	See Benzeneavoethane. See Byen eard, ethyle. See Gyangia. See Ozamida. See Dylamediamina. See Ethylemediamina. See Allymediamina. See Allymediamina.	nyl See Tartrone	ic acid,
3566 3567 3568	Ethanedinitrile*. Ethanedioic acid*. 1,1-Ethanedioi, 2,2,2-t	<u> </u>	i rate.	
3569 3570 3571	1,2-Ethanediol*.	See Glycol. dodecahydrohydrobenzoin;	C12H22O2	198.30
3572	. 1,2-diphenyl	cyclohexanone pinacol See Hydrobenzoin; Isohydrobe	e nzoin.	
3573 3574	Ethanedioyl chloride*.		C.H.(SO.H)2	190.19
3576	acid* 1,2-Ethanedithiol*	dithioglycol; ethylene mer- captan; ethylene dimer-	HSCH2CH2SH	94.19
3577 3578 3579 3580	Ethanenitrile*. 2-oro-2-phenyl Ethanesulfinic acid*. Ethanesulfonic acid*.	captan Sec Acetonitrile. Sec Benzoyl cyanide. ethylsulfinic acid.	C.H.SO.H	94.13
3581	2-amino	See Taurine. See Ischionic acid.		
-11	_	The state of Manual of the		

*Name approved by the International Union of Chemistry. 974

ORGANIC COMPOUNDS (Continued)

				(2000)			
;	Crystalline form, color	Density	Melting	Boiling		ty in gram	Solubility in grams per 100 $_{ m L}$
90	and index of refraction	图/8	point, °C	point, °C	Water	Alcohol	Ether, etc.
3549	col. liq., 1.4942	1.60020	-43.8 (-36)	146.3	:	8	o eth.
3549 K	col. ald	:	40.6	91.5	ند	ď	s. eth.
3549 P	col. liq., 1.412973	1.6447025	24.65	82.8		ಹ	s. eth.
3550	col. monoel. f. eth.		41	277-8021		al. s.	sl. s. eth.
3551	col. rhomb.	1.182 2	211 (209)	383	:	0.7678	14 bz.; s. ac. a.
3552	liq., 1.58902	2.57920	-26	188.4	:	. 📸	
3553	ool. liq.,	$1.3249\frac{26}{4}$		74.1		8	s eth.
3554	liq	1.26615		197	0.5	. 8	∞ eth, glyc.
3555	col. liq., 1.4711	1.44320	-36.7	113.5	:		eth.
3555 R	col. gas	1.5702	13.2	45.8			s. eth.
3556	col. liq., 1.3557223	1.5635426	-36.4	47.7		o;	s. eth.; w bz.
3557 3557M 3558		3.784 g/1	-107 95 d.	-46.8		:	v. s. eth. Cs.
3559	need. f. al.	:	. 26		:	5	bz.; sl. s. lgr. v. s. eth.
3560	п	:	54-4.5	348-9751		s. b.	v. s. eth.
3561 3562 3563 3564 3565 3566 3566 3566							
3570 3570 3571	necd	:	129-30				v. 8. bz.: s. peta
3572 3573 3574 3575	ст. f. ac. a		104		Ą. 8.		eth.
3576	liq	1.123	:	146	i		V. S. Blk.; B.
3577 3578 3579 3580	syrup						8. alk. 8. alk.
3581					deliq		
Hop	ernlenetions and obb	Promise				-	

Solubility in grams per 100 ml of Water | Alcohol | Ether, etc.

Boiling point, C

Melting point, C

Crystalline form, color and index of refraction

ORGANIC COMPOUNDS (Continued)

o eth., chl.

1.08°, 0.96^{17.5}, 0.91²⁸

-119

1.430 20: 1.45052

col. liq., 1.42386

col. liq., 1.381. 0.86430.5

3803

s eth

d. c.

1.3264

3801

1.224 2

120 166

s eth 360 cm² s. eth.

-103.9

1.2604 g/l; -169.4; frs. -181

3809

0.566-102

153-4

-138.7

col. liq. or gas. 0.9214.

3805 3805 3806 3807 3808

0.57420 48.321 v. sl. s. | .co 25.6°

Moi. Wt.	226.09 210.09 146.00 108.98	64. 52 122. 24 28. 05	185.87 96.96 96.95 96.95 180.24	
Formula	(C ₂ H ₆) ₂ A ₈ O ₄ (C ₂ H ₆) ₂ A ₈ O ₃ B(OC ₃ H ₆) ₃	CELCELOL (C.EL.):S. CEL:CEL	etc. under Glycol. CHB1-CHB1-CHB1-CHCI.CHCI. CHCI.CHCI CHCI.CHCI CHCI.CHCI.	
Synonyms	triethyl arsenate; ethyl or- thoarsenate thoarsenite thoarsenite thoarsenite triethyl borate; triethoxy- bromoethane*	See I. Butene, 4-brome.*. See Cellulose, clays char. chlorocthane.* See Proprioritrile. clay ldithocthane.*, diethyl disulfide ethene"; elayl.	See "diacetate", "dibenzoate" See Virul, bromide. See I. Pertens. Behren. See 1. Pertens. Behren. See 1. Pertens. Behren. See 1. Pertens. Behren. See 1. Pertens. 2. Behren. See 1. Buttens. 2. Behren. See 1. Buttens. 2. Behren. See 1. Heren. Allohorde. Allohorde. Allohorde. Allohorde. Allohorde. Allohorde. See 1. Butten. See 2. Heren. See 3. Heren. See 1. Butten. See 2. Heren. See 3. Heren. See 4. Penten. See 5. Penten. See 5. Penten. See 5. Penten. See 5. Penten. See 7. Penten. S	tional Haion of Chemistry.
Name	Ethyl arsenate t Ethyl arsenite t Ethyl borate t Ethyl bromide	Ethylcellulose. Ethyl chloride. Ethyl cyanide. Ethyl disulide. Ethyl flaulide.		todo-
, S	3801 3802 3803 3804	3805 3805 3806 3807 3808 3808	2811 2811 2811 2811 2811 2811 2811 2811	춣

s etp. o eth.

> 60.1 48.4

> > -80.5

ool. liq., 1.5428 2.271⁴ liq., 1.2519¹ liq., 1.4519¹. 1.291⁴ liq., 1.4490¹. 1.265⁴ liq., 1.4490¹. 1.265⁴

3823A liq., 1.449015...

3823

(cis)-53; (trans)-6.5 :

3810 3811 3812 3813 3814 3815 3816 3817 3818 3820 3820

a eth

02->

277

1.0384;

col. liq., 1.610¹⁴

3833 3834 3835 3835 3836 3839 3840 3841 3841 3843 3843 3843 3843 3843

*Name approved by the International Union of Chemistry.

s. HCl, dil. s., conc. alk.; i. org. solv. s. org. solv.; hyd. by alk.

ئ ق

£3

col. cr.

infus.

sq. pl. or ing. rhomb. tab. f. me. al. wb. powd.....

8318 8319

229

v. s. etb.

s. eth.

d. 350

126.5 - 9

8321 8322 8323 ps. yel. oily liq. 8323 8324 col. sc. f. h. w.

v. s. eth.

v. s. eth. s. eth.

o eth. α etp. ∞ eth.

2.64⁸¹ me. al.; 0.047⁸¹ bz.

0.4531

Solubility in grams per 100 ml of Water | Alcohol Ether, etc.

Boiling point, C

Melting point, °C

Density g/ml

Crystalline form, color and index of refraction

ORGANIC COMPOUNDS (Continued)

															1			٠.					
	Mol. Wt.	214.82	240.11	430.70	212.29	212.29	212.28 120.14 · 120.14	120.14	120.14	135.16	135.16	211.25		92.13		171.04	171 04	171.04	216.04	216.04	. 216.U	148.24	•
CONOTINE	Formula W	(C.H.), Sn.F. 214.		acid. CaHeoOs	[NH2(CH2)C6H2]2	[NH2(CH3)C6H3]2.	CH4CH4)Ceh43:		C.H.CH.CHO	CHAC4H4CONH3.	CH,C,H,CONH,	CH,CH,CONH.	Call	С.Н.С.В.		CH4C4H4Br	BrC,H,CH,	BrCeHcHa	NO.C.H.CH.Br	NO.C.H.CH.Br	NO-C.H.CHabr	CH,CH,(CH,)► CH,	
PHISIGAL	Synonyms		diethylstannone	See Aniline, 2.4.6-trinitro. See Tolune, 2.4.6-trinitro. See 2. Nophlydamine Isuloni	A Actylene, diphenyl- 4.bi-o-toluidine (NH:=1): 4diamino-3,3'-dimethyl-	biphenyl 4.4.bi-m-toluidine (NH2=1); 4.4.dismino-2.2dimethyl- bi-henyl	2-methylbenzenecarbonal*; o-methylbenzaldehyde	m-methylbenzaldebyde	phenulscetaldehyde	o-methylbenzamide	m-methylbenzamide	p-methylbenzamide	α-phenylacetanilide	See Carbinol, tolyl-, methylbensene; phenyl- methane	See Benzylamine. See Toluene, a-triato See Methane, phenyllolyl	See Benzyl disulfide.	m-tolyl bromide	p-tolyl bromide	See Benzyl bromide.	m-nitrobensyl bromide	p-nitrobensyl bromide	See Ether, butul tolyl. 1-butyl-2-methylbensene.	1 77-ing of Chamistry.
	Name	<u> </u>	*-lø	•	Tocopherol. Se Tollan.	m-Tolldine4	p-Tolidine	:		a-Toluandenyue		p-Toluamide	a-Toluanilide	Tolubenzyl alcohol. Toluene	a-amino	benzyl- α-(benzyldithio)- α-bromo-	m-bromo	, p-bromo	a-bromo			butoxy.	
	ò	E317	8318 T	8319 1 8320 7 8321 7 8322 0			8326	8328	8329	8330	8332	8333	8334	8335 8336	8337	8339	6349	3 28	8344	9248	8347	8348	, 1

eth.; s. chl., glac. ac. a., acet., CSs, bs.

0.04716

110.626

8

0.8669420

col. liq.,

8335 8336

v. s. eth., bz.

٧. 8.

-27 (-26 to 181.75 -29) -39.8 183.7

184**-5**

1.38982

rhomb. cr. f. al., 1.5490

col liq., 1.551 1.4099*0

8342 8343

col. liq..... 1.422

8337 8338 8339 8340 8341

ø eth.

v. s. etb.

sl. s. (i.)

100 (97-8)

200-1

oil..... 0.870218

₹. 8.

v. ßl. 8.

:

need..... cr. f. dil. al. . .

> 8346 8347

need. f. al. . .

46-7 28 s. etb.

sl. s. eth.; v. sl. s. bz. v. s. eth.

v. s. eth.

al. s. c., v. s. v. s. h. sl. s.

147 (139–40) 97 (94)

v. sl. s. 8

V-10

el. s.

8 194

199(195.5) | sl. s.

.....

1.019 1.020 1.027

liq., 1.5406821.4

8328 8329

liq., 1.5469316.6

8330

195.5

1.039

liq., 1.5485219.0

pr. f. h. w....

8325

1.1 eth.; i. H.304, dil. KOH

sl. s. c., v. s. v. s. b.

165 (1**59–**60) 117

col. need. f. w. wh. pr. f. al...

need. f. eth....

8332 8333

8331

*Name approved by the International Union of Chemistry.

For explanations and abbreviations see beginging of table.

SEP. N.

٠.٠.

 $\frac{\text{liq.}}{0.814^{-4.6}} = \frac{-207 \left(-213\right)}{4.00029} \left[-190 \left(-192\right) \left[\frac{0.0049 \, \text{g,s}}{0.0029 \, \text{m}} \right] \cdot 2.0^{26} \, \text{cm}^{\frac{1}{2}} \cdot 8. \, \text{s.s. s.,}}{0.4029 \, \text{c.s.}} \right]$

0.00103 3.50 cm³

1.250 0 g/1

col. odori. pois. gas

2583

v

Solubility in grams per 160 ml of

Ether, etc.

Water | Alcokol |

Boiling point, C

Melting point, °C

Density g/ml

Crystalline form, color and index of refraction

Ņo.

ORGANIC COMPOUNDS (Continued)

No. 2583	Name	Synonyms	Formula	Wt.
2583				
	Carbon monoxide		00	28.01
2584 2585 2586	Carbon oxysulide. Carbon suboxide Carbon tetrabromide.	See Carbony suffde. malonic anhydride (so-called); dioxopropadiene* tetrabromomethane*	OC:C:CO	68.03
2587	Carbon tetrachloride.	tetrachloromethane	CCL	153.84
2587M 2588	Carbon tetrafluoride Carbon tetraiodide	tetrafluoromethane*	CF. CI.	88.01 519.69
2589 2589M 2590	Carbonyl chloride. Carbonyl fluoride Carbonyl sulfide	See Phosgene. fluoroformyl fluoride	COF.	66.01
2591	:	2-quinolinol or 2(1)-quir- olone; o-aminocinnamic acid lactam	C.H.NO	145.15
2852	, 3-ethyl		HO(PH*O)	
2593	, 4-methyl	2(1)-lepidone	C10H9NO	159.18
259 4 2595 2596	Carbothialdine Carbylamine chloride, Carbylamine derivativ	phenyl See Aniine, N-(dic es. See Amyl isocyanide, Butyl	GsH10N2St. hloromethylene) isocyanide, etc. CriH2013.	162.27
2597 2599	Carnaubyl aicohol	a-card	Criffso	354.65
2600	β-Carotene	β-carotin; provitamin A	C40Hss	536.85
2601 2602	Carotin. d-Carpaine	See Carotene.	Cı.HzıNOz	239.35
2603	, hydrochloride		ClaH28NO2·HCl	275.82
1092	Carubinose.	See d-Mannose.		

v. sl. s. eth.; sl. s. bz. i. eth., s. a.

v. sl. s. v. s. h. sl. 8.

 270^{17}

col. need. f. w.

2593

2594 2595 2596

v. sl. s. eth.; s. conc. H₂SO₄, alk.; i. bz., chl.

sl. 8.

:

69 175

leaf |\alpha + 364.23 |in bz. red-br. glist. cr.

2597 2599 2600

...... 181-2

136 d.

:::::::

red monoel. pr.

sl. s. eth., me.
al., chl.; s.
CS₂, bz., pet.
eth.

3 eth.; s. chl., bz., amyl al., CS.

=

:

121

monocl. pr. f. al. $[\alpha]$ +21 \$55'p

2601 2602

s. eth.

11.6

225 d.

in al.
Ing. wh.
rhomb. or
monocl.

2603

5604

4. 448 cm³ pyr.; 1248 cm³ ni-tro bz.;15002 cm³ tol. V. 8. eth.; 9. dil. HCl

Ą. 8.

subl.

200 168

:

pr. f. al. col. cr.....

2591

2592

d. d. 100 cm⁸ 80022 cm⁸

-83 -50.2 (-47.5)

-114 -138

col. gas.....

2589 2589M 2590

1.139-114 liq. 1.24-67; (A) 2.105; 2.721 g/1

∞ eth.,chl., bz;

0.082

s. eth., chl. s. eth.

189.5 sl. d. 0.02429 s.

-111.3 (-107) α48.4 β90.1

col. liq. or gas, 1.114° 1.454 201. monocl. 3.42

2584 2585

2586

sl. s. i. d. b. s., d. h. s. eth.

-128 subl. 90-100 vac.

2587M col. gas..... 1.96-1st 2588 dk. red cub... 4.32

-22.8; frz. 76.8 to tri-morph; -28.6; -23.8; -21.2 -124 171 d. subl.

1.63195

1.595 19;

col. liq., 1.4630518

2587

tab., 1.59998*** (He)

912

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